

Buildings Technology Research and Development Subcommittee Meeting

July 15, 2010

Location: 950 L'Enfant Plaza DOE

Time: 1:30-3:30 p.m.

Attendees ¹	Agency/Office
Shyam Sunder	DOC/NIST BTRD Co-chair
Roland Risser	DOE/EE-Buildings BTRD Co-chair
Kevin Hurst	EOP/OSTP
Paul Domich	DOC/NIST BTRD Ex-Sec
William Healy	DOC/NIST
George Hernandez	DOE/EE-Buildings
Brian Holuj	DOE/EE-Buildings
Alan Schroeder	DOE/EE-Buildings
Kim Fowler	PNNL
Ecton English	DOD
Dale Manty	EPA
Katy Hatcher	EPA
Diane Stewart	HHS
Joni Teter	GSA
Kevin Kampschroer	GSA
Ken Sandler	GSA
Mike Lowell	GSA
Charles Iliff	AOC
Robert Kollm	USPS
John Taggart	STPI

Next Meeting: September 16, 2010 1:30 - 3:30 PM, 950 L'Enfant Plaza DOE

Meeting Calendar:

June 17, 2010 (Cancelled)

July 15, 2010

August 19, 2010

September 16, 2010

October 21, 2010

November 18, 2010

December 16, 2010

Introductions: Subcommittee Executive Secretary Paul Domich opened the monthly meeting of the Subcommittee for Buildings Technology Research and

¹ Active Members not attending identified in light gray

Development (BTRD) welcoming the agency representatives and thanking them for their participation. Co-Chairs Shyam Sunder (NIST) and Roland Risser (DOE) were unable to attend the working meeting of the Subcommittee. Participants provided self-introductions.

Review of Minutes: Minutes were reviewed prior to the start of the meeting.

BTRD Submetering Whitepaper: Paul Domich opened the discussion by reminding participants that this was a “working” meeting and would focus on the current draft of the submetering whitepaper and requisite additions and changes that are required. Katy Hatcher from EPA offered to provide an overview of the EPA Portfolio Manager and its capabilities. The working group began by reviewed the “Submetering Whitepaper Project Plan and Timeline” summary document. The document summarizes a project plan to develop a short 15-20 page whitepaper covering the current state of submetering, submetering gaps and challenges, and recent applications, and literature references to relevant publications. For each section, gaps and challenges will be identified along with descriptive candidate areas where additional development or progress is required.

Summary working group comments: The current draft document has a number of missing sections that must be developed by subcommittee writing teams. Members suggested reordering the paper to focus on the most important sections early in the document. After discussion of current product offerings, the working group decided to provide several examples of implementations due to broad range of potential configurations. Return on investment material will be added to the economics section to the paper. Smart grid implications will only be referenced and not developed as part of the paper. Issues on implementation barriers and problems of ownership and maintenance responsibilities were identified. Economic and real estate impacts of high-performance buildings were discussed and will be included in the draft document by PNNL. Analysis and software tools should be identified that meet current and proposed energy performance, greenhouse gas, and other sustainability requirements.

Katy Hatcher then provided an overview of EPA’s Portfolio Manager and described the key characteristics of the tool, peer group comparisons, and penetration and use of the tool into the building sector. Please see attached presentation for full details.

White House Summit on Net-Zero Energy, High-Performance Green Buildings: Joni Teter provided a short overview of the high performance green building workshop held on July 18th and 19th. The EOP Council on Environmental Quality also held a White House Summit on the morning of the 18th.

Global Superior Energy Performance Partnership: Brian Holuj provided an overview of the recently created Global Superior Energy Performance Partnership (G-SEP). The Clean Energy Ministerial in Washington, D.C. on July 19th and 20th, ministers launched this new public-private partnership to accelerate and promote continuous energy efficiency improvements in commercial buildings and industrial facilities. GSEP will help businesses, governments, and other entities to identify and follow money-saving pathways to reduce energy use. It has three major components:

- A harmonized implementation and certification process to encourage continuous energy efficiency improvements in commercial buildings (e.g., offices, hospitals, stores, etc.) and industrial manufacturing facilities (inclusive of industrial processes and manufacturing operations). The certification process will rely on facilities implementing an energy management system, such as the forthcoming ISO 50001 energy management standard, and achieving energy performance improvements validated by a third party.
- Sectoral task groups to accelerate the adoption of efficiency-enhancing and emissions-reducing best practices and technologies within specific sectors (e.g., power, steel, and hotel chains) through public-private partnerships.
- Cross-sectoral technology task groups to facilitate the adoption of specific energy-saving solutions, such as “cool roofs” and combined heat and power technologies.

GSEP will also help governments and utilities to identify and adopt policies and programs that incentivize continuous energy performance improvements.

Closure: Domich closed the meeting at 3:30 p.m. and thanked the agency representatives and guests for their participation.